BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: **Estimate for Construction of RCC drain with Covering Slab at Sadasivappa Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.**

								Est Cost Rs.	2000000.00
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary** soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 142 / Item No. 19.1, PWD SR 2016-17**	cum							
	RCC Drain Sadashivappa Layout		2	57.00	1.00	0.90	102.60		
			2	100.00	1.00	1.00	200.00		
							302.60	199.36	**60328.00**
	Basic Rate	82.00							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		188.08							
	Area Weightage @6%	11.28							
	Total	**199.36**							
2	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.3 of PWD SR 2016-17**	Cum							
	RCC Drain Sadashivappa Layout		2	57.00	0.90	0.15	15.39		
			2	100.00	0.90	0.15	27.00		
							42.39	5159.02	**218691.00**
	Basic Rate	4867.00							
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
3	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing , main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) **Page No. 18, Item No. 4.48, PWD SR 2016-17**	Cum							
	For RCC Drain bottom		2	57.00	0.90	0.15	15.39		
			2	100.00	0.90	0.15	27.00		
	side wall		4	57.00	0.15	0.60	20.52		
			4	100.00	0.15	0.60	36.00		
							98.91	6231.74	**616381.00**
	Basic Rate	5879.00							
	Area Weightage @ 6%	352.74							
	Total	**6231.74**							
	KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface** such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 15 / Item No. 4.31 PWD SR 2016-17**	Sqm							
	RCC Drain Side Wall		4x2	57.00		0.60	273.60		
	CDs		4x2	100.00		0.60	480.00		
							753.60	310.58	**234053.00**
	Basic Rate	293.00							
	Area Weightage @ 6%	17.58							
	Total	**310.58**							
	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **- TMT bars Fe 500 Page No. 17 / Item No. 4.46.2, PWD SR 2016-17**	Tonne							
				98.91	0.060	T/cum	**5.93**	59413.00	**352592.00**
	Basic Rate	56050.00							
	Area Weightage @ 6%	3363.00							
	Total	**59413.00**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
6	Providing **precast slab of 100mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate	Sqm							
	RCC Drain Slab		2	57.00	0.90		102.60		
			2	100.00	0.90		180.00		
							282.60	1760.00	**497376.00**
	Sub Total								**1979421.00**
	Third Party Inspection Charges @ 1%								**19794.00**
	Add for unforseen and rounding off	L/S							**785.00**
								Total	**2000000.00**

Rupees Twenty Lakh(s) Only

Certificate:

1. The work spot has been inspected and the work is found necessary.
2. This estimate is prepared as per P.W.D S.R of 2016-17.
3. This work included under 2016-17 POW Grant.
4. The provisions were made in this estimate are necessary and adequate.
5. This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

12/01

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

12/01

Administrative Approval

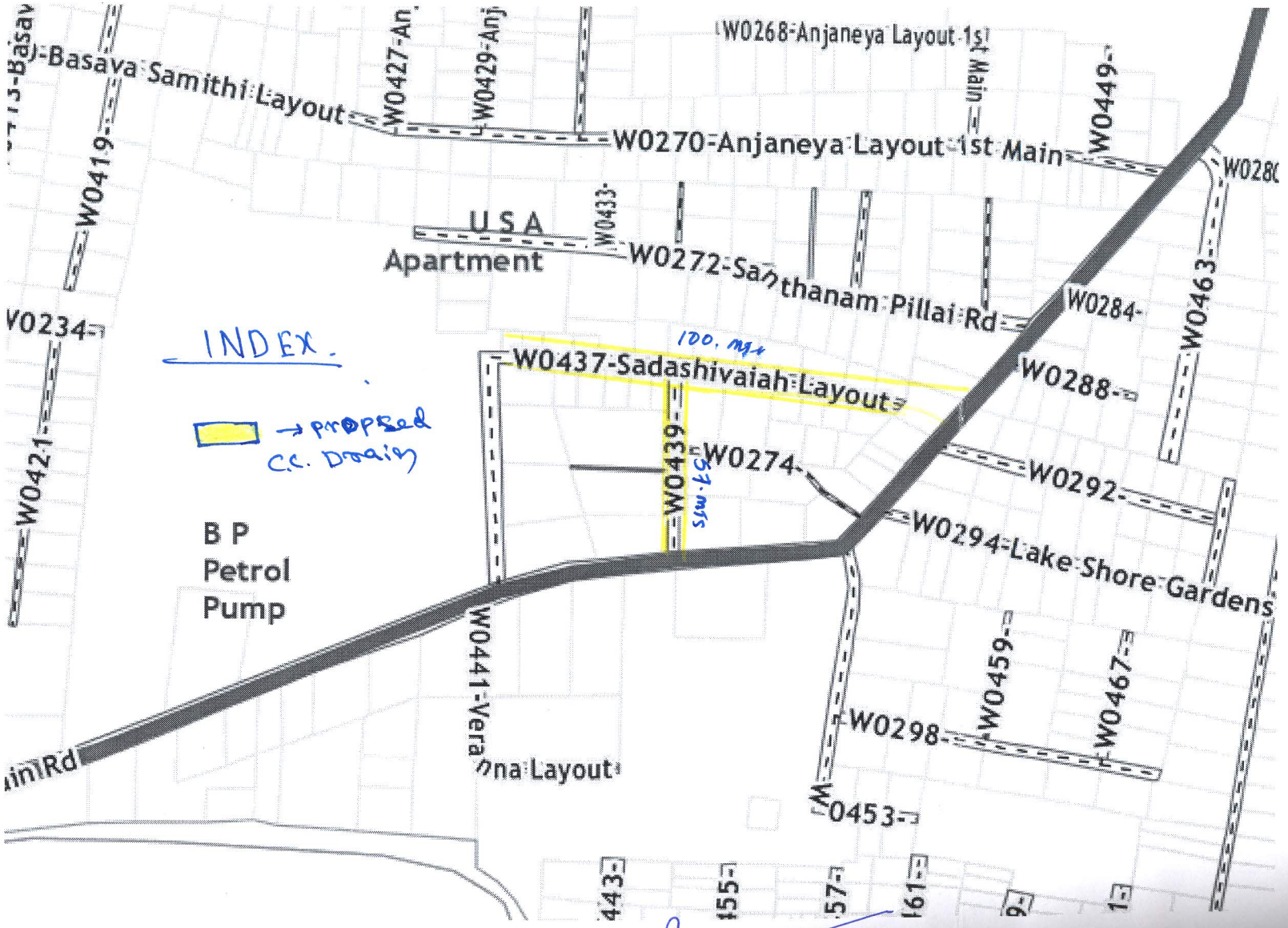
Accorded For ..... 20.00 lakh Rs
Head of A/C..... P1771
CER NO :..... 139 Dt:.. 12.01.17

TA CE (YNK)

TECHNICAL SANCTION

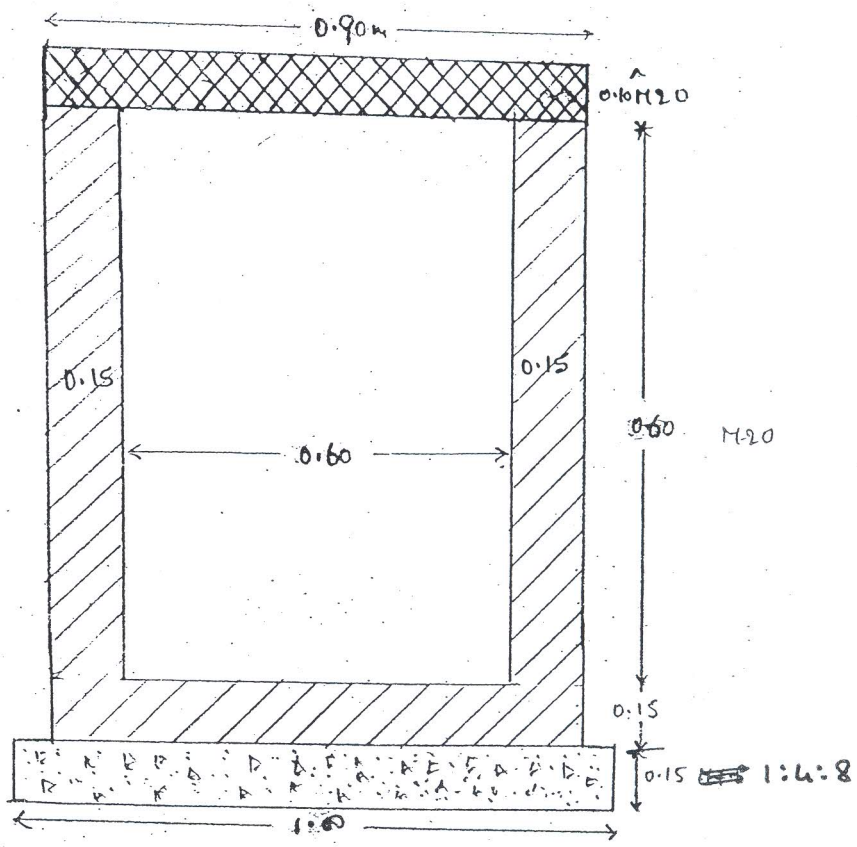
Accorded For Rs. Twenty lakhs only
Head of A/c P-1771
DN. Ref. No. 130/16-17 12/01/17
AE EE(BTP) 12/01

Name of Work: Construction of RCC drain with Covering. Slab at Sadasivappa Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.



Jadhao
AE

Executive Engineer



CROSS SECTION OF CC DRAIN

Jagadha
AE

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97